



# 9" PORTABLE COLOR TELEVISION

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**Use & Care of your GE 9" Portable  
Solid State Color Television  
Model: 8-0904**

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**We bring good things to life.**

# General Information

## Read This Guide Carefully

This guide can help you get the most out of your new color television. It is important for you to understand

the proper use and care of your TV to ensure your TV works well for many years.

After reading this guide,

save it as a convenient source of answers to questions you may have in the future.

## Record Model and Serial Numbers Here

These numbers are located on the back of the TV. They are also listed on the Product Safety Registration Card. It is important to give these numbers in any correspondence or service calls concerning your TV.

### MODEL NUMBER

8-0904

### SERIAL NUMBER

## Register your TV

Mail your Product Safety Registration Card today—so we can locate your TV should there be a need for adjustments.

## Need Service...

Before requesting service, check—"Problems You Can Solve" inside the back cover. It may save you time

and expense by revealing a minor problem you can correct yourself. If you have any questions about service

for your GE television, call your local General Electric dealer; consult the yellow pages.

## For safe servicing

If you can't restore normal performance by following the Operating instructions, do not attempt any further adjustments. Unplug the TV and contact your service technician.

Removal of the TV's back cover may expose you to electric shock and other

hazards. Follow any warning labels on the TV.

**Disposal.** When the TV is to be disposed, ask a service technician to dispose of it to prevent an accident that could cause the picture tube to explode.

**Replacement parts.** Ask the service technician to

make sure replacement parts have the same safety characteristics as the original parts.

**Safety check.** When service or repairs to the TV are completed, ask the service technician to perform the safety check described in the manufacturer's service brochures.

# Important Safety Instructions

This TV has been designed and manufactured to assure your safety. By following these safety precautions and any in-

structions on the TV, you can make sure the safeguards built into your set will protect you.

## WARNING:

To prevent fire or electrical shock, do not expose this color television to rain or moisture

## For safe use

**Power source.** Operate the set only from a power source as indicated on the TV (110 Volt, 60 cycle). Do not overload wall outlets and avoid using an extension cord.

**Polarized plug.** Your set has a polarized AC line plug (one blade is wider—see sketch below). This safety feature allows the plug to fit into the power outlet only one way. If the plug doesn't go into the outlet completely, turn the plug over and put it in the other way. If it still doesn't fit, contact your electrician to change the outlet. Do not destroy the plug's safeguard by trying to change the blades or outlet yourself.



**Power cord.** Do not allow anything to rest on the power cord or place the cord where it will become worn by persons walking on it. If the power cord or plug is damaged or frayed, contact your service technician.

**Ventilation.** The ventilation openings in the TV cabinet allow the release of heat normally produced during use and should not be blocked.

■ Never place a table model TV on a bed, sofa, rug or other soft surface.

■ Never place a TV in a "built-in" enclosure such as a bookcase unless proper ventilation is provided.

■ Never cover the ventilation openings with cloth or other material.

■ Never place the set near or over a radiator or heat register.

**Stand/mounts.** Use only a cart or stand approved by GE.

**WARNING: Do not attempt to mount this product to a shelf/table/stand by driving screws into the cabinet bottom or sides. A shock hazard may result.**

**Moisture.** Do not expose the TV to rain or moisture. For example, do not place it near a bathtub or in a damp basement.

**Unattended.** Always turn the TV off if you are leaving the room for more than a brief period. Unplug your set and disconnect the antenna or cable from a cable TV system.

**Openings.** Do not drop or push an object into openings in the TV cabinet—contact with a part can cause electric shock. Never spill liquid of any kind on the TV receiver.

**Cleaning.** Unplug the set before cleaning. Do not use liquid or aerosol cleaners. Use a damp—not wet—cloth for cleaning.

**Popping noise.** If snapping or popping noises from the TV occur frequently while it's in use, unplug the TV and contact your service technician. Some snapping or popping is normal when the TV is turned on or off.

**Lightning.** Unplug your set during lightning storms to prevent damage due to power surges.

**Accessories.** Never add accessories that the TV has not been designed to accommodate.

**Damage/performance change.** If the TV is dropped or damaged, or if there is a distinct change in the TV's performance, unplug the set and contact your service technician.

**Servicing.** Unplug the TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power cord or plug is frayed or damaged.
- If liquid spills into TV receiver.
- If TV receiver has been exposed to rain or water.
- If TV receiver does not operate normally by following operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustments of other controls may result in damage and will often require extensive work by a qualified technician to restore the television receiver to normal operation.

**Replacement Parts.** Be sure service technician uses manufacturer specified parts which have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

**Safety Check.** Upon completion of any service or repairs, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.

# Outdoor Antenna Safety

Installing an outdoor antenna can be very hazardous and should be left to a professional antenna installer.

To avoid the possibility of electric shock, an outdoor antenna system should not be located near overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outdoor antenna, extreme care should be taken to keep from touching such power lines or circuits with the hands or objects held in the hands since this contact could lead to fatal injury.

## Proper grounding of outdoor antenna.

If an outdoor antenna is to be connected to the TV, be sure the antenna system is grounded so as to provide some protection against power surges and built-up static charges.

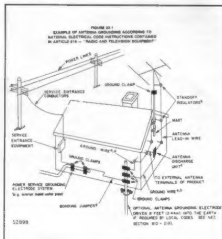
Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1981, provides information on:

- proper grounding of the mast and supporting structure,
- grounding of the lead-in wire to an antenna discharge unit (also known as a "lightning arrestor"),
- size of grounding conductor,
- location of antenna discharge unit,
- connection to grounding electrodes, and
- requirements for the grounding electrodes.

See diagram at right.

## Connecting outdoor antenna to TV.

Once you have a properly installed outdoor antenna, follow the instructions on the next page to connect it to the TV.



- Use No. 10 AWG (5.3 mm<sup>2</sup>) copper, No. 8 AWG (8.4 mm<sup>2</sup>) aluminum, No. 17 AWG (1.0 mm<sup>2</sup>) copper-clad steel or bronze wire, or larger, as a ground wire.
- Secure antenna lead-in and ground-wires to house with standoff insulators spaced from 4—6 feet (1.22—1.83 m) apart.
- Mount antenna discharge unit as close as possible to where lead-in enters house.
- Use jumper wire not smaller than No. 6 AWG (13.3 mm<sup>2</sup>) copper, or the equivalent, when a separate antenna-grounding electrode is used.



The lightning flash and arrowhead within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.

**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONEL.



The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

# Antenna Connections

## INDOOR ANTENNA

1. Connect the UHF loop antenna to the UHF antenna screws located on the back cover of the set as shown.
2. Insert the VHF rod antenna into the mounting hole located on the upper side of the set. Connect the 300 ohm twin lead flat wire to the 300/75 ohm antenna adapter.
3. Connect the 300/75 ohm antenna adapter to the VHF jack.

## OUTDOOR ANTENNA

### UHF antenna connection (flat 300 ohm twin-lead wire)

1. Connect the UHF antenna twin-lead wire to the UHF screw terminals on the TV.

### VHF antenna connection (flat 300 ohm twin-lead wire)

1. Attach the VHF twin-lead antenna wire to the two screw terminals on the 300/75 ohm adapter.

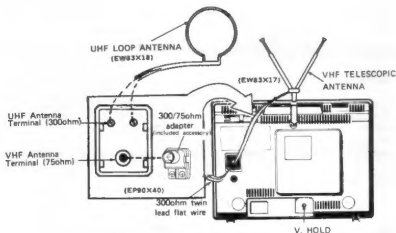
2. Plug the adapter into the VHF/antenna terminal 75 ohm.

### VHF antenna connection (round 75 ohm cable)

1. Attach the round 75 ohm antenna cable into the VHF/antenna terminal 75 ohm.

### VHF/UHF combination antenna using a signal splitter

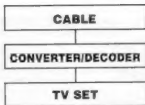
1. Attach the antenna lead in cable to the signal splitter.
2. Connect the UHF twin-lead from the signal splitter to the UHF antenna terminals on the TV.
3. Connect the VHF twin-lead from the signal splitter to the adapter.
4. Attach the adapter to the VHF/antenna terminal 75 ohm.



# Additional Hookups

## Typical hookup with 82 channel TV

If you receive scrambled or unscrambled channels



- Must have Cable company's converter.
- Set TV to converter's output channel—your Cable company will advise you which channel it is.
- Use converter to change channels.

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## Game Machines

Video games have become very popular — with "children of all ages." Each year, games become more sophisticated, providing stimulating challenges and fun. Usually, a simple connection to your TV's VHF antenna terminal is all you need to start playing a video game on your GE TV.

**Protecting the picture tube.** One caution about some video

game machines: prolonged use may cause damage to the TV's picture tube. The bright, fixed pattern of a game may burn itself onto the tube. To avoid this problem:

- Adjust the brightness and custom picture controls to the minimum level needed for using the game.
- Do not operate the game

machine for extended periods—and alternate using the game with normal TV viewing.

- Adjust the sharpness control for the most pleasing display.

Please note that imprinting of game machines images on the picture tube is not a manufacturing defect and therefore is not covered by the warranty.

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## Computer

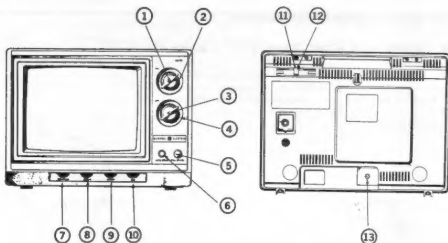
Just as modern electronics has brought the fun of video games into the home, it also brings the convenience of a computer to the home—and at reasonable prices.

Computers hooked to TV's

are now used for banking and shopping in the comfort of the home. People also use home computers for budgeting, storing recipes, learning a foreign language — a myriad of activities as

unlimited as the human's own computer, the brain. As with game machines, a simple connection to the VHF antenna terminal is all it usually takes to add a computer to your GE TV.

# Controls Location & Function



## FRONT VIEW

1. VHF CHANNEL SELECTOR
2. VHF FINE TUNING RING
3. UHF CHANNEL SELECTOR
4. UHF FINE TUNING RING
5. PULL ON & VOLUME CONTROL
6. AUTO COLOR
7. CONTRAST CONTROL
8. BRIGHTNESS CONTROL
9. COLOR CONTROL
10. TINT CONTROL

## REAR VIEW

11. UHF ANTENNA TERMINAL
12. VHF ANTENNA TERMINAL (75ohm)
13. VERTICAL HOLD CONTROL

# How To Use Your TV

## To Turn the Volume ON/OFF

To turn your receiver on, gently pull outward on the pull-on control. To adjust the

sound level, rotate this same control to the right to increase volume and to the left

to decrease the sound level. Push the knob in to turn the set off.

## To Select and Fine Tune VHF Channels (2-13)

Turn the VHF Channel Selector to a desired channel. **Push in and turn** the VHF Fine Tuning ring first in one direction, then in the other until a picture

appears on the screen. With the ring still pushed in, turn it clockwise until the picture becomes very distorted, then turn it counterclockwise until the picture becomes sharp and clear.

VHF



Fine Tuning Ring

## To Select and Fine Tune UHF Channels (14-83)

Set the VHF Channel Selector to the "U" position between channels 13 and 2. To select UHF channels turn the UHF Channel selector to the desired channel.

To tune UHF channels turn the UHF Fine Tuning ring clockwise or counterclockwise to the point which provides the best picture and sound.



UHF



Fine Tuning Ring



# Control Adjustments

**AUTO COLOR** — AUTO COLOR gives you natural flesh tones and more uniform color in every picture and on every channel. It eliminates the necessity of resetting the COLOR and TINT controls as channels are changed. To turn the AUTO COLOR SWITCH "on" (  ) or "off" (  ), push the AUTO COLOR SWITCH to the "on" or "off" position.

When the AUTO COLOR SWITCH is set to "on," set the BRIGHTNESS, COLOR, and TINT adjusting knobs to the middle position.

Next rotate the contrast control knob clockwise (right) as far as it will go. Then turn it back counterclockwise (left) slowly until the picture becomes natural and easy to view. You can make the fine adjustments of color and tint as you like, even when the AUTO COLOR SWITCH is kept in the "on" position.

AUTO COLOR also automatically adjusts fine tuning, after you have fine tuned a channel. Under normal conditions, this circuit eliminates the need for repeated fine tuning when selecting channels.

- In case of severe channel interference or other unusual reception problems, manual fine tuning may be required. Push and release the AUTO COLOR SWITCH so that it pops out and carefully tune for best picture.

**VERTICAL HOLD** — If the picture is moving up or down (rolling), adjust the Vertical Hold control (located on the back of the set - see page 3) until the picture stops rolling.



**CONTRAST** — The Contrast Control is a knob which can adjust contrast, brightness and color all at once. When you turn it clockwise (right), contrast becomes greater and color deeper. The picture becomes sharpest in the daytime (when surroundings are brighter) by increasing the contrast. In the evening hours (when the surroundings are darker) the sharpest picture is obtained by reducing the contrast.

**BRIGHT** — When the Brightness control knob is turned clockwise (right), the darker portions of the picture are lightened.

**COLOR** — The Color control sets the intensity of the colors. This control should be set to where the colors appear normal in intensity and brilliance to you. Some programs may not be transmitted in color; if so, you cannot add color by adjusting this control.

**TINT** — The Tint control determines how faithfully the colors in the transmitted signal are reproduced by the receiver. Adjusting the control for natural facial tone is the best method of obtaining true color reproduction of the entire picture. At one end of its adjustment range, flesh tones will be tinted purple and at the other end they will be green. When the Tint control is set at the point where fleshtones appear most true and natural, all other color will be correct.

# Interference With Your Programs

Sometimes your TV picture will break up completely or even disappear. Sometimes only the sound portion of the program fails. These can be caused by network or station difficulties. They are almost always acknowledged by your TV station. There are other things that can also interfere with your picture. Examples of these types of interference are illustrated here.



Ghosts (multiple images) on your screen may be cured by relocating or turning your antenna



Bars or horizontal lines may be a transmission problem. It will be corrected from the transmitter.



Your signal is too weak. You may need a special antenna to improve the signal strength.



Shortwave radio transmitting equipment can cause interference like this but it is usually temporary.



Automobile ignition interference. This is usually temporary.

# PROBLEMS YOU CAN SOLVE

## SYMPTOMS

No picture, No sound  
 Sound OK, poor picture  
 Picture OK, poor sound  
 Picture blurred  
 Lines or Streaks in picture  
 Poor reception on some channels  
 Picture rolls vertically  
 No color  
 Poor color

## CHECK THESE ITEMS AND TRY THESE ADJUSTMENTS

Be sure power cord is plugged in  
 Be sure TV is switched "ON"  
 Try another channel (station trouble)  
 Check antenna connections (back of TV)  
 Check antenna for broken lead-in wire  
 Check outside antenna  
 Check for local interference  
 Adjust Fine Tuning (check AUTO COLOR SWITCH)  
 Adjust Vertical Hold control  
 Adjust Contrast control  
 Adjust Brightness control  
 Adjust Color control  
 Adjust Tint control  
 Adjust Volume control  
 Adjust indoor antenna

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If you have additional questions, you may call the GE Answer Center™ (800-626-2000) consumer information service. This toll free number is available 7 days a week, 24 hours a day.

## **GENERAL ELECTRIC COMPANY**

**(Color Television - 19 Inch Screen Size and Smaller)**

### **What We Will Do**

General Electric warrants this color television for normal home use within the fifty states of the USA and the District of Columbia as follows:

- For one year from the original date of purchase, General Electric will repair any manufacturing defects at no charge to you.
- For an additional twelve months, General Electric will furnish a free picture tube in exchange for a defective tube. Labor is not included during this period.

Parts supplied under this warranty may be new or rebuilt at General Electric's option.

### **How To Obtain Warranty Service**

On color television sets 19 inch screen size or smaller, deliver to and pick up your set from a General Electric Customer Electronics Authorized Servicer.

### **Where To Get Service**

To locate your nearest General Electric Customer Electronics Authorized Servicer.

- Contact your General Electric dealer
- Check your yellow pages

### **When Warranty Does Not Apply**

This warranty does not apply to units purchased for use in hotels, motels, schools or military installation or for use in any other commercial application including, but not limited to, rental units or units purchased for use in rental homes, apartments or condominiums.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**GENERAL ELECTRIC COMPANY  
CONSUMER ELECTRONICS BUSINESS OPERATIONS  
PORTSMOUTH, VA 23705**

**GENERAL  ELECTRIC**